



Performance Data Sheet

RNA5522YNA

General Information

Model	RNA5522YNA	Refrigerant	R-134a
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	6670	6080					
	Watts	1020	1090					
	Amps	4.59	4.91					
	Lb/h	85.9	81.0					
-10	Btu/h	7710	7150	6530				
	Watts	1060	1130	1200				
	Amps	4.75	5.07	5.42				
	Lb/h	99.9	96.0	91.6				
-5	Btu/h	8840	8290	7670	7010			
	Watts	1100	1170	1250	1330			
	Amps	4.93	5.24	5.60	5.99			
	Lb/h	115	112	108	104			
0	Btu/h	10100	9500	8880	8210	7500		
	Watts	1140	1210	1290	1380	1470		
	Amps	5.11	5.42	5.79	6.19	6.62		
	Lb/h	131	128	125	122	118		
5	Btu/h	11400	10800	10200	9470	8740		
	Watts	1180	1250	1340	1430	1530		
	Amps	5.29	5.61	5.99	6.40	6.85		
	Lb/h	148	146	144	141	138		
10	Btu/h	12800	12200	11500	10800	10000	9240	8430
	Watts	1220	1300	1390	1490	1590	1700	1800
	Amps	5.47	5.80	6.19	6.62	7.09	7.59	8.11
	Lb/h	167	165	163	161	158	155	152
15	Btu/h	14500	13800	13000	12200	11400	10500	9680
	Watts	1250	1340	1430	1540	1650	1770	1880
	Amps	5.63	5.98	6.39	6.85	7.34	7.87	8.42
	Lb/h	188	186	185	183	180	178	174
20	Btu/h	16200	15500	14600	13800	12900	11900	11000
	Watts	1290	1380	1480	1590	1710	1830	1960
	Amps	5.77	6.15	6.58	7.07	7.59	8.16	8.74
	Lb/h	211	210	208	206	204	201	198

25	Btu/h	18200	17300	16400	15400	14400	13400	12400
	Watts	1310	1410	1520	1640	1770	1900	2040
	Amps	5.90	6.30	6.76	7.28	7.84	8.44	9.07
	Lb/h	237	236	234	232	230	227	224
30	Btu/h	20300	19400	18300	17200	16100	15000	13800
	Watts	1340	1440	1560	1690	1820	1970	2110
	Amps	5.99	6.42	6.92	7.48	8.08	8.72	9.40
	Lb/h	265	264	262	260	258	255	252
35	Btu/h	22700	21600	20400	19200	17900	16700	15400
	Watts	1350	1460	1590	1730	1870	2030	2190
	Amps	6.04	6.51	7.05	7.65	8.30	8.99	9.72
	Lb/h	297	296	294	291	289	286	282
40	Btu/h	25300	24000	22700	21300	19900	18500	17100
	Watts	1360	1480	1610	1760	1920	2080	2250
	Amps	6.06	6.57	7.15	7.80	8.50	9.25	10.0
	Lb/h	333	331	328	326	322	319	315
45	Btu/h	28100	26700	25200	23700	22100	20500	18900
	Watts	1350	1480	1630	1780	1950	2130	2320
	Amps	6.02	6.58	7.22	7.92	8.67	9.48	10.3
	Lb/h	372	370	367	363	359	355	351
50	Btu/h	31200	29600	27900	26200	24400	22700	20900
	Watts	1340	1480	1630	1800	1980	2180	2370
	Amps	5.93	6.55	7.24	7.99	8.81	9.68	10.6
	Lb/h	416	412	409	404	400	395	390
55	Btu/h	34600	32800	30900	29000	27000	25000	23000
	Watts	1310	1460	1630	1810	2000	2210	2420
	Amps	5.79	6.46	7.21	8.03	8.91	9.85	10.8
	Lb/h	464	460	455	450	444	439	433

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.054237E+04	1.192027E+03	5.399796E+00	1.314749E+02
C2	2.821877E+02	9.455336E+00	4.967586E-02	2.349331E+00
C3	5.378390E+01	-1.100559E+01	-4.550795E-02	2.189911E-01
C4	5.211013E+00	-1.054894E-01	-8.007566E-04	5.081869E-02
C5	-3.862315E-01	-8.863252E-02	-3.963704E-04	1.127803E-02
C6	-9.272917E-01	1.648340E-01	6.415909E-04	-3.151977E-03
C7	2.216521E-02	-1.604870E-03	-7.950051E-06	4.147456E-04
C8	-3.665172E-02	1.334242E-03	9.983840E-06	-2.917049E-04
C9	4.898235E-04	8.828680E-04	2.894354E-06	7.048185E-06
C10	2.231563E-03	-4.477428E-04	-1.478284E-06	3.437933E-06

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature